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UXOXV	M
NXUZD	YNTSPKPAR N
PZUXN	KEKRLKKDAGRQRWGQYFRNMKRARGGSKSDKDSVQEEGQDSDAEVSFTDEPSMAEMGPANGLYGGLGEPA
σΣΟΧα	PALGRPSGAPGSFPLEHGG*LAGPEQYGELRPSSPYGVPSSPAALQSLPGPQPLLSSLVYPEAGLGLV*PAV-GLT-D*-TRGI-PPHDTN-S*-SQA-TNS-D-S-*IP-QDHDSNI-QSAHDSIM*GQ -VQA-SN-P-S*IPTQDHNSNI-QSMH-SN-AF-DTIIGQ* -VQA-SN-P-S*IPTQDHNSNSPMAGQS
ΨΣΩΧΝ	GPPGGPPPMRVL*AGNGPSSDLSTGSSGGYPDFPASPASWLDEVDHAQF

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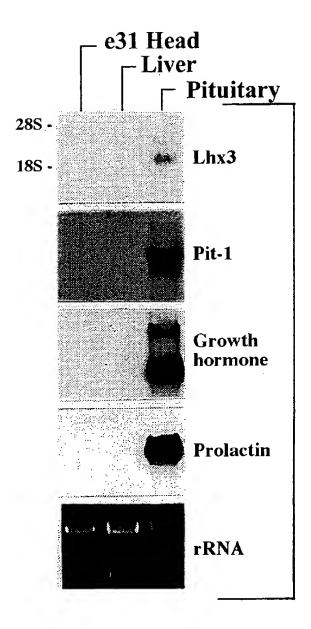


FIG. 2

FIG. 3Ai

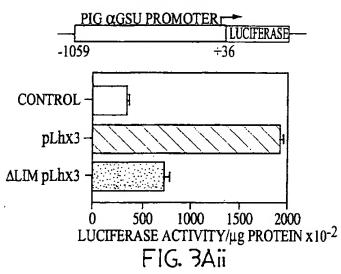


FIG. 3Bi

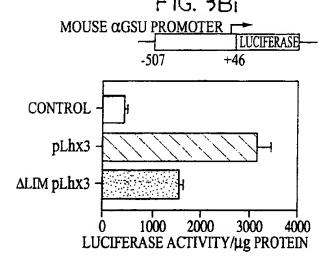
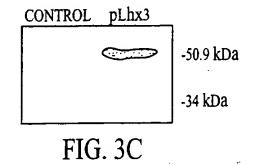
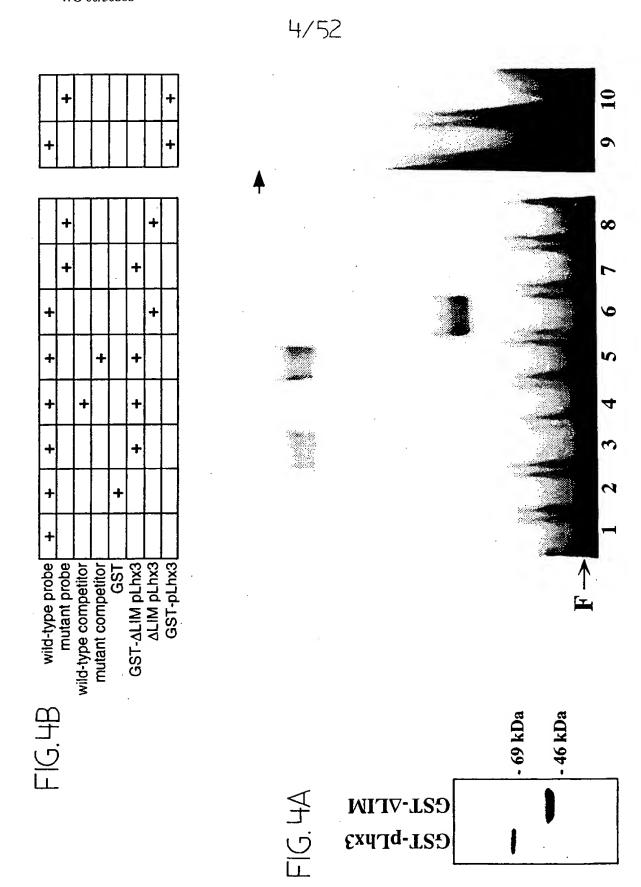


FIG. 3Bii





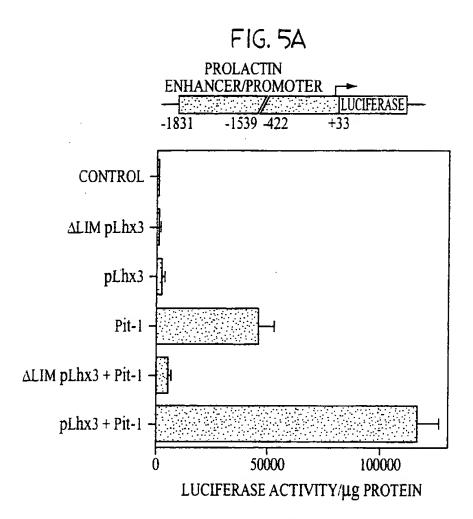
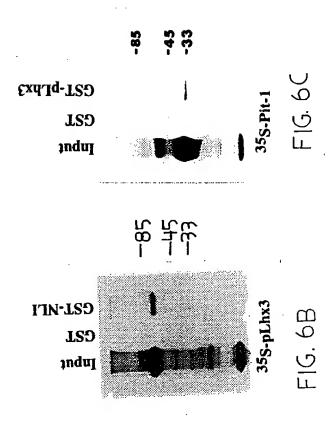
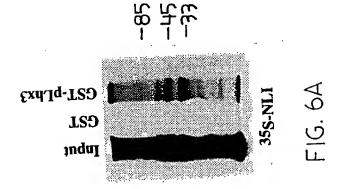


FIG. 5B





IG.7A

61 ccagcacatc ctggaccgct tcatcctcaa ggctctggac cgccactggc acagcaagtg 361 ggacagccgg ctcgtgtgca aggccgacta cgagaccgcc aagcagcgag aggccgaggc 1 ctgggagggg cggccacagg agctgggagg aaaagagatc ccactgtgtg ccggctgcga 121 cctcaagtgc agtgactgcc acacgccgct ggccgagcgc tgcttcagcc gcggagagag 181 cctctactgc aaggacgact tcttcaagcg cttcgggacc aagtgcgccg cgtgccagct 241 gggcatcccg cccacgcagg tggtgcgccg cgcccaggac ttcgtgtacc acctgcactg 301 cttcgcctgc gtcgtgtgca agcggcagct ggccacgggc gacgagttct acctcatgga 421 cacggccaag cggccgcgca cgaccatcac ggccaagcag ctggagacgc tgaagagcgc 481 ctacaacacg tcgcccaagc ccgcgcgcca cgtgcgcgag cagctctcct ccgagaccgg 541 cctggacatg cgcgtcgtgc aggtgtggtt ccagaaccgc cgggccaagg aaaagcggct 601 caagaaggac gccggccggc agcgctgggg ccagtacttt cgtaacatga agcgcgcccg 661 cggtggctcc aagtcggaca aggacagcgt ccaggaggag gggcaggaca gtgacgccga 721 ggtctccttc acagacgagc catccatggc cgaaatgggc cctgccaacg gcctctacgg 781 cggcctgggg gagcctgccc ctgccttggg ccggccctcg ggggccccgg gcagcttccc 841 gctggagcac ggaggcctgg cgggcccgga gcagtatgga gagctgcgcc ccagcagccc 901 ctacggtgtc ccctcgtcgc ccgccgcct gcagagcctc cctggccccc agcccctcct 961 ctccagcttg gtgtacccgg aggctggctt ggggcttgtg cccgcgggggc ccccaggtgg 1021 gcccccaccc atgagggtgc tggcagggaa cggacccagc tccgacctat ccacggggag erf arry net fruit fr

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FIG. 7B

1321 ggactttctc ccggtctcga ggctccttct gggacaaggg gagccacctg gtggctgctc 1261 gtcaccggcg gggcacaggc tgaggactgt ccagcccggc ggccctggcc ccgggcagag 1381 agcaagcett gttttgtaag cagatteete eetttateaa eeaaattaa etgagtgett 1441 getgetettt etagaecgga gtggtcagec eccgaageeg gggagggggg eteteeceag 1081 cagtgggggc taccccgact tccctgccag tcccgcctcc tggctggacg aggtggatca 1141 egetcagtte tgaetgagge eccageteeg tggageacea gacaegagea etgeeeetgg 1201 ctgggtggtc gggagccgcg ctctcctttc ccgaagccct gggcctctaa aggacacagg 1501 cccagagcag cacagccctc agactggaag atgctttaat ttttaaaatt aaaaaataat 1561 acgaactgtg cttccatttc ccagcttcct ctgtctagtt ctgcc

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SDKDSVQEEGQDSDAEVSFTDEPSMAEMGPANGLYGGLGEPAPALGRPSGAPGSFP LEHGGLAGPEQYGELRPSSPYGVPSSPAALQSLPGPQPLLSSLVYPEAGLGLVPAG WEGRPQELGGKEIPLCAGCDQHILDRFILKALDRHWHSKCLKCSDCHTPLAERCFS GDEFYLMEDSRLVCKADYETAKQREAEATAKRPRTTITAKQLETLKSAYNTSPKPA RGESLYCKDDFFKRFGTKCAACQLGIPPTQVVRRAQDFVYHLHCFACVVCKRQLAT RHVREQLSSETGLDMRVVQVWFQNRRAKEKRLKKDAGRQRWGQYFRNMKRARGGSK **PPGGPPPMRVLAGNGPSSDLSTGSSGGYPDFPASPASWLDEVDHAQF**

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Fig. 9A

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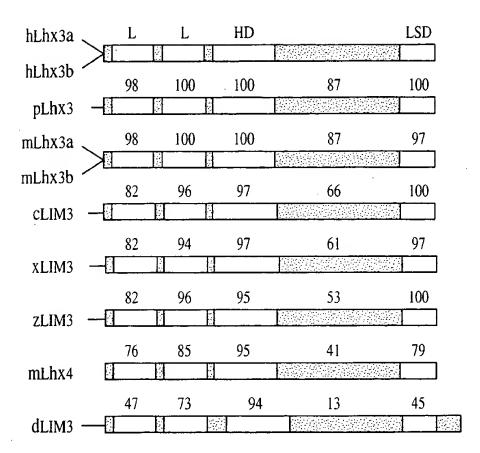


Fig. 9C

-104 ggcacgagcc ccgcacgacg cggcgggact tgggagccc gaaccctcca ggggacgctg acctcggagg agcgcgtctc gcgccactcg gcctggtggc

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CGCGATGCTG CTGGAAACGG GGCTCGAGCG CGACCGAGCG AGGCCCGGGG

CCGCCGCCGT CTGCACCTTG GGCGGGACTC GG

79 GAGATCCCGC TGTGCGCTGG CTGTGACCAG CACATCCTGG ACCGCTTCAT

CCTCAAGGCT CTGGACCGCC ACTGGCACAG CAAGTGTCTC AAGTGCAGCG 129

TACTGCAAGG ACGACTTTT CAAGCGCTTC GGGACCAAGT GCGCCGCGTG ACTGCCACAC GCCACTGGCC GAGCGCTGCT TCAGCCGAGG GGAGAGCGTT 229

TGTACCACCT GCACTGCTTT GCCTGCGTCG TGTGCAAGCG GCAGCTGGCC

ACGGGCGACG AGTTCTACCT CATGGAGGAC AGCCGGCTCG TGTGCAAGGC

379

329

279

GGACTACGAA ACCGCCAAGC AGCGAGAGGC CGAGGCCACG GCCAAGCGGC CGCGCACGAC CATCACCGCC AAGCAGCTGG AGACGCTGAA GAGCGCTTAC 429 479

GACGGGCCTG GACATGCGCG TGGTGCAGGT TTGGTTCCAG AACCGCCGGG AACACCTCGC CCAAGCCGGC GCGCCACGTG CGCGAGCAGC TCTCGTCCGA 529 579

CCAAGGAGAA GAGGCTGAAG AAGGACGCCG GCCGGCAGCG CTGGGGGCAG TATTTCCGCA ACATGAAGCG CTCCCGCGGC GGCTCCAAGT CGGACAAGA 629

CAGCGTTCAG GAGGGGCAGG ACAGCGACGC TGAGGTCTCC TTCCCCGATG

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FIG. 10B

CTTGGGCCTT GTGCCCTCGG GAGCCCCCGG CGGCCCCCCA CCCATGAGGG CCACGCTCAG TTCTGAccca ggcccggctc caccctgcac ctcacacgag tggggccagg gcgtcaaggg agggctggtg ccttcggagc ctcccactgc cataattgtg ctttcacttc ccaggctcca tgtgtcttgg agccgtcacc TGCTGGCAGG GAACGGACCC AGTTCTGACC TATCCACGGG GAGCAGCGG GGTTACCCCG ACTTCCCTGC CAGCCCCGCC TCCTGGCTGG ATGAGGTAGA ggagctgccc ctgggttgggc ggctcggggc tgctggggtt tccgaggaag cgaccgcaca gctccctctc tgggggctga gggacccacc tggcccctcc ttgtaagcaa atttctcccc tttattgacc aattaactga gcacttgctg atagcccgag ggctggaaaa acgctttcat ctctaaaaact gagaaatcat ccgaggctcc ctctttaggt cggagattgg ccttgcctgt cgaggcaaga 779 AGCCTTCCTT GGCGGAAATG GGCCCGGCCA ATGGCCTCTA CGGGAGCTTG 829 GGGGAACCCA CCCAGGCCTT GGGCCGGCCC TCGGGAGCCC TGGGCAACTT CTCCCTGGAG CATGGAGGCC TGGCAGGCCC AGAGCAGTAC CGAGAGCTGC 929 GICCCGGCAG CCCCTACGGI GICCCCCCAI CCCCCGCCGC CCCGCAGAGC CTCCCTGGCC CCCAGCCCCT CCTCTCCAGC CTGGTGTACC CAGACACCAG tctgacacag ggctggcccg ccaggtggcc tcccagcaag ccagcctttt 979 (1029 1079 1129 1179 1229 1279 1329 1479 1379 1429 1579

FIG. 100

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FIG. 11A

- -119 cgcagcgccc agcagcaccc ggagtcgctt ggacgccggt tcgggggctat -69 tgcggggtgg cgtcgctggg cccgggaaag ttcgggaactg gagagtggcg $^{-19}$ acgeegggeg gegggaeec $^{
 m A}$ TGGAGGCGCG CGGGGAGCTG GGCCCGGCCC 32 GGGAGTCGGC GGGAGGCGAC CTGCTGCTAG CACTGCTGGC GCGGAGGGCA 82 GACCTGCGCCGA
- GAGATCCCGC TGTGCGCTGG CTGTGACCAG CACATCCTGG ACCGCTTCAT
 - CCTCAAGGCT CTGGACCGCC ACTGGCACAG CAAGTGTCTC AAGTGCAGCG
 - ACTGCCACAC GCCACTGGCC GAGCGCTGCT TCAGCCGAGG GGAGAGCGTT

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FIG. 11B	
244 TACTGCAAGG ACGACTTTTT CAAGCGCTTC GGGACCAAGT GCGCCGCGTG	
294 CCAGCTGGGC ATCCCGCCCA CGCAGGTGGT GCGCCGCGCC	
344 TGTACCACCT GCACTGCTTT GCCTGCGTCG TGTGCAAGCG GCAGCTGGCC	
394 ACGGGCGACG AGTTCTACCT CATGGAGGAC AGCCGGCTCG TGTGCAAGGC	
444 GGACTACGAA ACCGCCAAGC AGCGAGGGC CGAGGCCACG GCCAAGCGGC	
494 CGCGCACGAC CATCACCGCC AAGCAGCTGG AGACGCTGAA GAGCGCTTAC	
544 AACACCTCGC CCAAGCCGGC GCGCCACGTG CGCGAGCAGC TCTCGTCCGA	
594 GACGGCCTG GACATGCGCG TGGTGCAGGT TTGGTTCCAG AACCGCCGGG	
644 CCAAGGAGAA GAGGCTGAAG AAGGACGCCG GCCGGCAGCG CTGGGGGCAG	
694 TATTTCCGCA ACATGAAGCG CTCCCGCGGC GGCTCCAAGT CGGACAAGGA	
744 CAGCGTTCAG GAGGGGCAGG ACAGCGACGC TGAGGTCTCC TTCCCCGATG	
794 AGCCTTCCTT GGCGGAAATG GGCCCGGCCA ATGGCCTCTA CGGGAGCTTG	
844 GGGGAACCCA CCCAGGCCTT GGGCCGGCCC TCGGGAGCCC TGGGCAACTT	
894 CICCCIGGAG CATGGAGGCC TGGCAGGCCC AGAGCAGTAC CGAGAGCTGC	
944 GTCCCGGCAG CCCCTACGGT GTCCCCCCAT CCCCCGCCGC CCCGCAGAGC	
994 CTCCCTGGCC CCCAGCCCCT CCTCTCCAGC CTGGTGTACC CAGACACCAG	
1044 CTTGGGCCTT GTGCCCTCGG GAGCCCCCGG CGGGCCCCCCA CCCATGAGGG	
1094 TGCTGGCAGG GAACGGACCC AGTTCTGACC TATCCACGGG GAGCAGCGGG	

FIG. 11C

40

4.

ggctgcagag gcggggacac acctgtgtcc tcctcacccc acccaggcc GGTTACCCCG ACTTCCCTGC CAGCCCCGCC TCCTGGCTGG ATGAGGTAGA cgaccgcaca gctccctctc tgggggctga gggacccacc tggcccctcc ttgtaagcaa atttctcccc tttattgacc aattaactga gcacttgctg cataattgtg ctttcacttc ccaggctcca tgtgtcttgg agccgtcacc ccgaggctcc ctctttaggt cggagattgg ccttgcctgt cgaggcaaga cttggtgtcc aggctgcacc cacagatgtc tgttgccaaa cagcctgccc tecetgeegg ageeggetet gecageecea gattgggaag teteeeeget ggagaagggt ggggctcctc tgagcctgcc ctgcctcctc catcagatcc tttgggaaga agtttctggg agatgcccgc agctgtgcgt gccccagaca CCACGCTCAG TTCTGAccca ggcccggctc caccctgcac ctcacacgag ggagctgccc ctgggtgggc ggctcggggc tgctggggtt tccgaggaag tggggccagg gcgtcaaggg agggctggtg ccttcggagc ctcccactgc tctgacacag ggctggcccg ccaggtggcc tcccagcaag ccagcctttt caaaggctgg cctgtgtgta agtcaaagtc actcccgcaa acctgaatct cgagctacct attggttctg tgaatgttct gtgtctttta tttattctcg ggtgatcagc tctttccaag ctcgtgcc 144 1244 1444 1644 1194 1494 1594 1294 1344 1394 1544 1694 1744 1844 1894



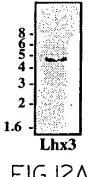


FIG. 12A

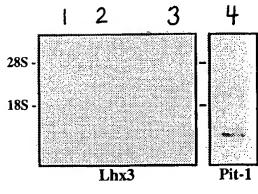


FIG. I2B

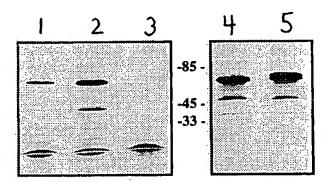
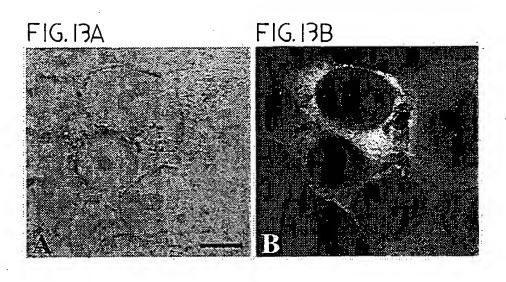
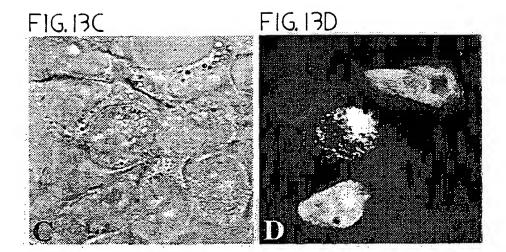


FIG. I2C





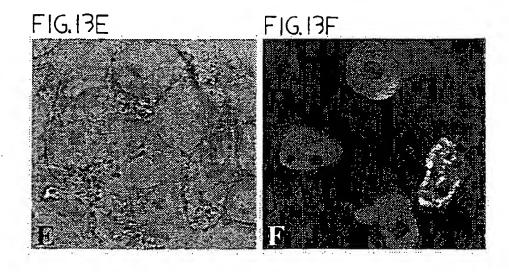


FIG. 14Ai

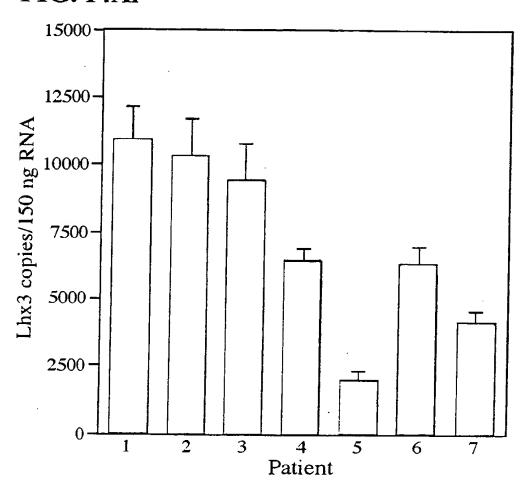
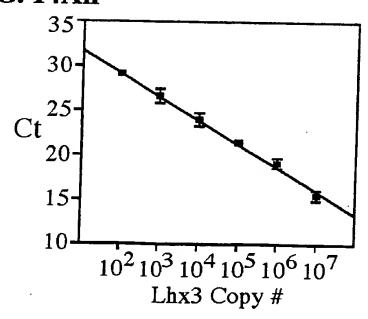
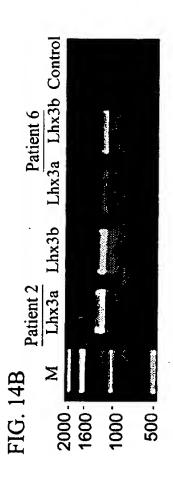
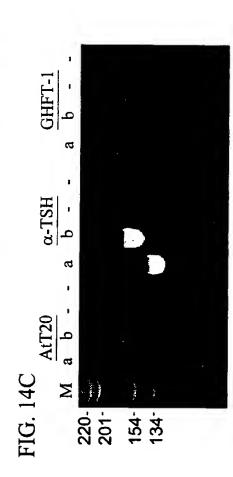
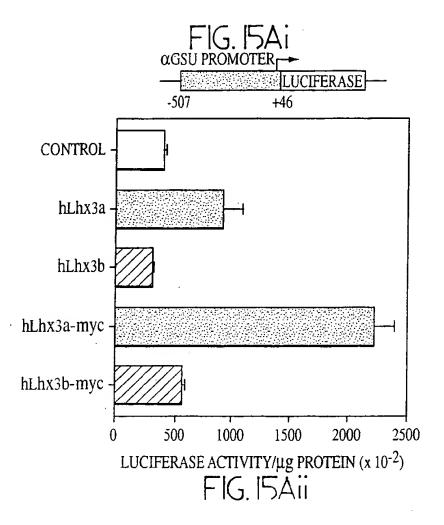


FIG. 14Aii









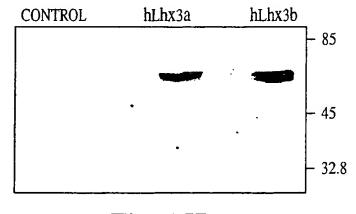
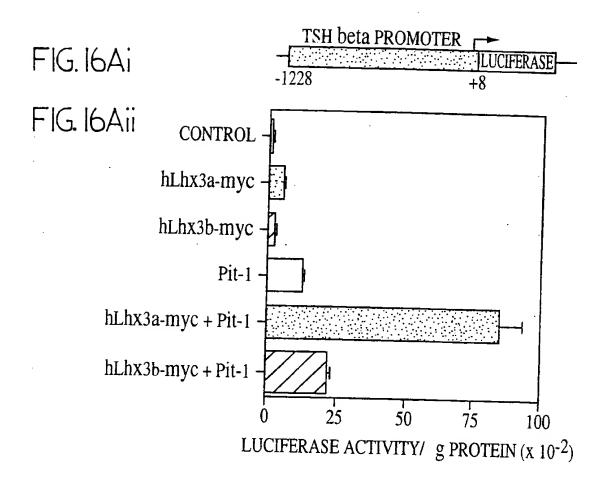
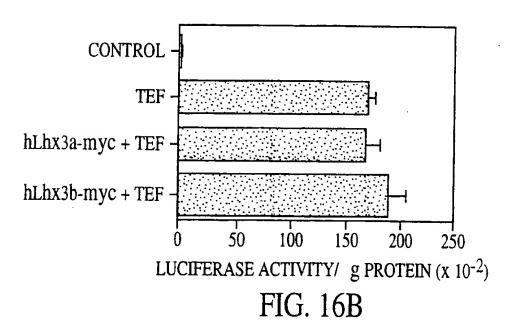
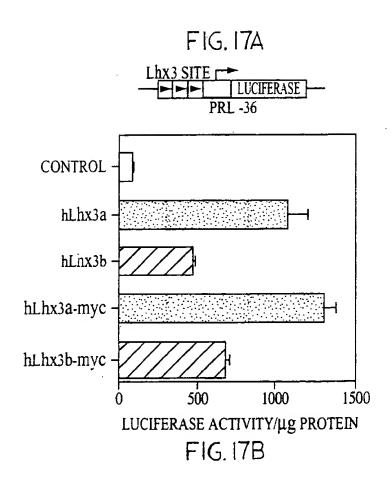


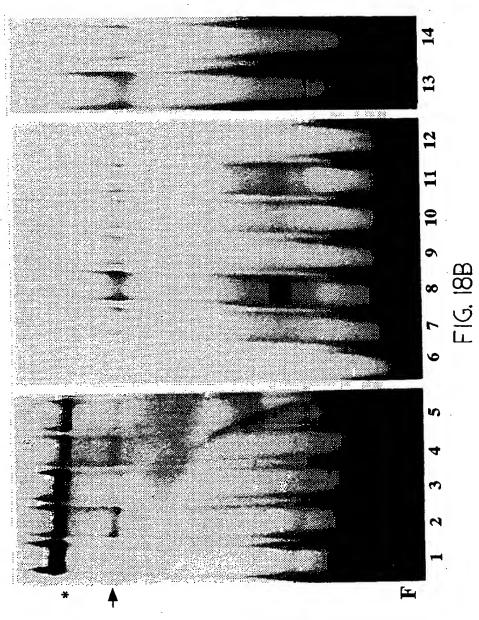
Fig. 15B







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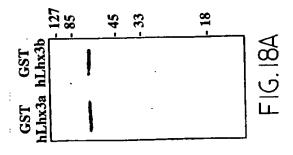


FIG. 19A

tggtctacga ggtgacccag aacttcctcg tgcccaca GAGATCCC GCTGTGCGCT GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG ctatgtttcc tgccgggctt cagagagcag atcccctgg ggtggggttt tgagtattca gcctcgtgaa atggcctggg ctgctttctt gctcacacac atttttagac cgatgtcagt ttccccttag ctcctgacat aggatgcggt gcctgcacac tcccggaact tgcggggcca cttaagctgg ctggggaaga gggtgtgtag ggaaaggagg accctcggc ggccctgagt cctgtggggcc ggaggggagg ctggctcgcg ttgggggtggg aaggtggctt cactgcctcc CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA acatttgcga ggagtcccta taaagagtgg ccatgacgct taacatgaag gagacccgat ggggtgcccc agctccaggt gatggtgaag acccgtttcc tcatttgagc tccacatgca cccttcttgg cactggcaac attttgtaat CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG TTGCCTGCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC CACGCAGGIG GIGCGCCGCG CCCAGGACIT CGIGIACCAC CIGCACIGCI CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT TTCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC ttgatattta ccccggaggc ctgcagacag ggccaccagg agggcagcc

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FIG. 19B

AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG SCGCCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG TTGGGCCGGC CCTCGGGAGC CCTGGGCAAC TTCTCCCTGG AGCATGGAGG CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG GCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG GTGTCCCCC ATCCCCCCCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGACC caggcccggc tccaccctgc acctcacacg agggagctgc ccctgggtgg geggeteggg getgetggggg ttteegagga agtggggeea gggegteaag ggagggctgg tgccttcgga gcctcccact gccgaccgca cagctccctc CCAAGCAGCT GGAGACGCTG AAGAGCGCTT ACAACACCTC GCCCAAGCCG CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA CGCTCCCGCG GCGGCTCCAA GTCGGACAAG GACAGCGTTC AGGAGGGGCA GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA TGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC CTCCTCTCCA GCCTGGTGTA CCCAGACACC AGCTTGGGCC TTGTGCCCTC CCAGITCIGA CCIAICCACG GGGAGCAGCG GGGGTIACCC CGACIICCCI

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FIG. 19C

taaqtcaaaq tcactcccqc aaacctqaat ctcqaqctac ctattggttc gtcggagatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc tctgagcctg ccctgcctcc tccatcagat cctttgggaa gaagtttctg tgtgaatgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca tetgggggget gagggaccea cetggeceet cetetgacae agggetggee egecaggtgg ceteceagea agecageett ttttgtaage aaatttetee cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgettte atetetaaaa etgagaaate ateataattg tgettteaet teccaggete catgtgtett ggageegtea eecegagget eeetetttag acacctgtgt cctcctcacc ccaccccagg cccttggtgt ccaggctgca cccacagatg tetgttgcca aacageetge eeteeetgee ggageegget ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg agctcgtgcc

FIG. 20A

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GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG TTGCCTGCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT TTCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC

FIG. 20B

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AGAAGGACGC CGCCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG TIGGGCCGGC CCICGGGAGC CCIGGGCAAC IICICCCIGG AGCAIGGAGG CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGACC caggcccggc tccaccctgc acctcacacg agggagctgc ccctgggtgg gcggctcggg gctgctgggg tttccgagga agtggggcca gggcgtcaag GCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG 3CGCGCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG CECTCCCGCG GCGGCTCCAA GTCGGACAAG GACAGCGTTC AGGAGGGGCA GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA TGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC STGTCCCCCC ATCCCCCGCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC CICCICICCA GCCIGGIGIA CCCAGACACC AGCITGGGCC TIGIGCCCIC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC CCAGTTCTGA CCTATCCACG GGGAGCAGCG GGGGTTACCC CGACTTCCCT CCAAGCAGCT GGAGACGCTG AAGAGCGCTT ACAACACCTC GCCCAAGCCG CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA

FIG. 20C

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FIG. 21A

gcacggcctg ggcactgcct tccagaggct gcatgccaga agGAGATCCC GCTGTGCGCT TIGGGCCGGC CCICGGGAGC CCIGGGCAAC TICICCCIGG AGCAIGGAGG AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG GCGCGCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG CGCTCCCGCG GCGGCTCCAA GTCGGACAAG GACAGCGTTC AGGAGGGGCA GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA IGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA GCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG CCAAGCAGCT GGAGACGCTG AAGAGCGCTT ACAACACCTC GCCCAAGCCG CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG TIGCCIGCGI CGIGIGCAAG CGGCAGCIGG CCACGGGCGA CGAGIICIAC gccccagtga gccctgggct ggaggtgatc acgcatgggg ctgccccggg CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT TICAAGCGCT TCGGGACCAA GIGCGCCGCG IGCCAGCIGG GCAICCCGCC

FIG. 21B

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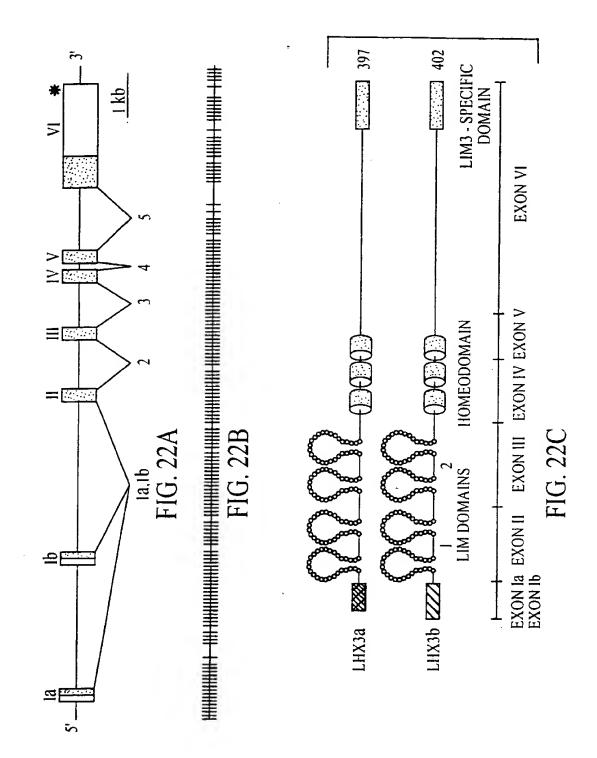
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CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG GCCAGCCCC CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGACC caggcccggc tccacctgc acctcacacg agggagctgc ccctgggtgg STGTCCCCCC ATCCCCCGCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC CTCCTCTCCA GCCTGGTGTA CCCAGACACC AGCTTGGGCC TTGTGCCCTC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC CCAGTICTGA CCTATCCACG GGGAGCAGCG GGGGTTACCC CGACTICCCT geggeteggg getgetgggg tttecgagga agtggggeca gggegteaag ggagggctgg tgccttcgga gcctcccact gccgaccgca cagctccctc tctgggggct gagggaccca cctggcccct cctctgacac agggctggcc cgccaggtgg cctcccagca agccagcctt ttttgtaagc aaatttctcc cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgctttc atctctaaaa ctgagaaatc atcataattg tgctttcact teccaggete catgtgtett ggageegtea eecegagget eeetetttag acacctgtgt cctcctcacc ccaccccagg cccttggtgt ccaggctgca gteggagatt ggeettgeet gtegaggeaa gaggetgeag aggeggggae cccacagatg tctgttgcca aacagcctgc cctccctgcc ggagccggct

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FIG. 21C

ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc tctgagcctg ccctgcctcc tccatcagat cctttgggaa gaagtttctg taagtcaaag tcactcccgc aaacctgaat ctcgagctac ctattggttc tgtgaatgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg agctcgtgcc



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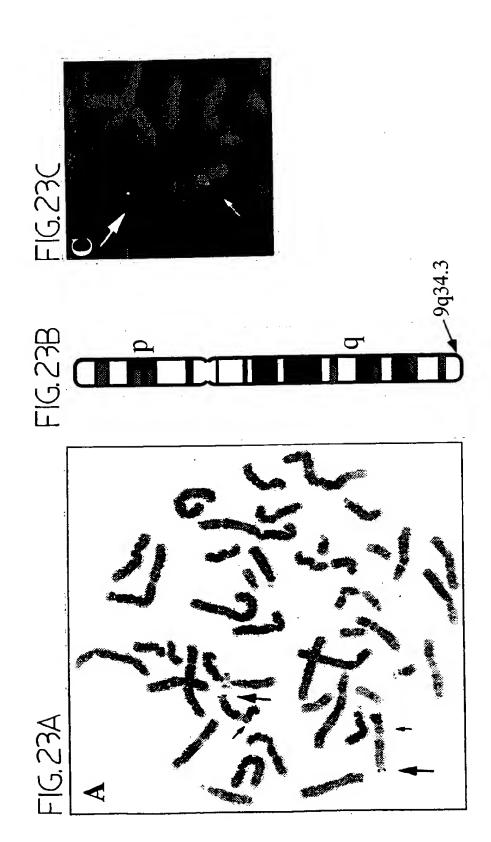


FIG. 24

- 1 MLLETGLERD RARPGAAAVC TLGGTR
- EIPLCAGCDQ HILDRFILKA LDRHWHSKCL KCSDCHTPLA ERCFSRGESV

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- YCKDDFFKRF GTKCAACQLG IPPTQVVRRA QDFVYHLHCF ACVVCKRQLA
 - TGDEFYLMED SRLVCKADYE TAKOREAEAT AKRPRTTITA KOLETLKSAY 127
 - NTSPKPARHV REQLSSETGL DMRVVQVWFQ NRRAKEKRLK KDAGRQRWGQ 177
 - YFRNMKRSRG GSKSDKDSVQ EGQDSDAEVS FPDEPSLAEMGPANGLYGSL GEPTQALGRP SGALGNFSLE HGGLAGPEQY RELRPGSPYG VPPSPAAPQS 227 277
 - LPGPQPLLSS LVYPDTSLGL VPSGAPGGPP PMRVLAGNGP SSDLSTGSSG
- 77 GYPDFPASPA SWLDEVDHAQ F*

FIG. 25

- 1 MEARGELGPA RESAGGDLLL ALLARRADLR R
- EIPLCAGCDO HILDRFILKA LDRHWHSKCL KCSDCHTPLA ERCFSRGESV 32]
- YCKDDFFKRF GTKCAACOLG I PPTQVVRRA ODFVYHLHCF ACVVCKROLA 82
- TGDEFYLMED SRLVCKADYE TAKOREAEAT AKRPRTTITA KOLETLKSAY 132
 - NTSPKPARHV REOLSSETGL DMRVVOVWFO NRRAKEKRLK KDAGRORWGO YFRNMKRSRG GSKSDKDSVQ EGQDSDAEVS FPDEPSLAEMGPANGLYGSL 182
 - GEPTQALGRP SGALGNFSLE HGGLAGPEQY RELRPGSPYG VPPSPAAPQS 232 282
- LPGPQPLLSS LVYPDTSLGL VPSGAPGGPP PMRVLAGNGP SSDLSTGSSG 332
- 382 GYPDFPASPA SWLDEVDHAQ F*

FIG. 26A

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cagggttgggc cgcctcctta acctggcgcc gccccttccc cagtcctgcc ggagggaggg actgtggttt cttgtgccca tccttctggg cctggggccct 101 cgcgATGCTG CTGGAAACGG GGCTCGAGCG CGACCGAGCG AGGCCCGGGG CCGCCGCCGT CTGCACCTTG GGCGGACTC GGGgtaagcc ccagcaggac tgcagggcca gcggccaggc aaagaaagtc ccgccgctct gcaggcggga ggagggcctg acgctggcct gcaagagtgc gggacagcgg ttggagtgga gccgaccaag gggtgctagg ttcccccggt gaccagtgcc cgtcagctct tgcacacagc ccggcccagg tctctggacc ccacagcagg ggacccaagc cttgtgtctc ccgcctgaac caccctcccc aagggccatt ccatcaccac ggacgctggg aaataatgga ggcattgttg gagggctggc cagatgccag acacacgacc cctgatcgct tcggcagcag ctgacactca gccacctgca ggcccttctt gggtaacaag tgctgtgcaa agtgaagggg cagaaagctg gctgcatggg ccactgctca aaacggacac atcggacctg ctgggagcta 1 ggcacgagcc ccgcacgacg cggcgggact tggggagcccc gaaccctcca 51 ggggacgctg acctcggagg agcgcgtctc gcgccactcg gcctggtggc actgaggaca gaaacggcaa gggcggcaga ggcgcgagga agggggfgcg cacagagatg gaaactgcag agagtgagtt tccagatccc agggtggcgg ggcccctaga aaaaaagggg gcatcgcagg cacagctggg gggcgatggg cccagcacag cccgcacaca ctcggctttg cacccgcgtg tccttgccct 651 301 351 401 451 501 551 601 801

FIG. 26B

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FIG. 26C

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TG. 26D

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FIG. 26E

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CAAGTGCAGC GACTGCCACA CGCCACTGGC CGAGCGCTGC TTCAGCCGAG gggaaggtgg cttcactgcc tcctggtcta cgaggtgacc cagaacttcc tegtgeccae agAGATCCCG CTGTGCGCTG GCTGTGACCA GCACATCCTG GGGAGAGCGT TTACTGCAAG GACGACTTTT TCAAgtgagc cccgaaacct cacctcagtg tgggagcgga gggcacgcct gccccagggga ctcctcccct cacaatcacc aaggccaggc cctcgaagcc tgcgtctctc gcaatcccag gtggggcctc tccatgggtg ctccctgggt ggctgggcct ggctgggaca 3801 gctgcccaat gatggggaag gcattgatat ttaccccgga ggcctgcaga cagggccacc aggcagggca gccacatttg cgaggagtcc ctagaaagag ggtgatggtg aagacccgtt tccctatgtt tcctgccggg cttcagagag cagatecect tgggggtgggg tttteatttg agetecaeat geaeeettet tggcactggc aacattttgt aattgagtat tcagcctcgt gaaatggcct gggctgcttt cttgctcaca cacattttta gaccgatgtc agtttcccct ccacttaagc tggctgggga agagggtgtg tagggaaagg aggaccctt ggcagccctg agtcctgtgg gccggagggg aggctggctc gcgttggggt cccactcctg tcacccaggc agggcaccct gcggcctggc caaattaagg tggccatgac gcttaacatg aaggagaccc gatggggtgc cccagctcca tagctcctga cataggatgc ggtgcctgca cactcccgga acttgcgggg GACCECTTCA TCCTCAAGGC TCTGGACCGC CACTGGCACA GCAAGTGTCT 3901 4401 4501 4301 4001

FIG. 26F

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CCCAGGACTT CGTGTACCAC CTGCACTGCT TTGCCTGCGT CGTGTGCAAG agtcacggac agacccgcgt cccgaaccgc ttcgttcggt ccgaagtgtg gccccagatg ggtcctctcc ctccggattc accttcccag atccagcatg GIGCECCECG IGCCAGCIEG GCAICCCECC CACECAEGIG GIGCECCECE CGGCAGCTGG CCACGGGCGA CGAGTTCTAC CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA GCAGCGAGGt cagccgaggg gacgacgete ecacetttee tggtetgaaa aaaatgggge tgaggeeaeg cggcttttcg cccttggtcg gaattatcgc cctaaattct tggccgcgaa agcagtcatt agagaagata cacccctatt tgtaggattc tactggactt gctctggccc agtggccttc atggctccag ctgtggggtg tgagggactg ggtcctgcag gcaatggcgg ctgggctccc cgaggtcttt ctgagattga cgaccaccct gcagggccgg acagagcctt cctccggggc cgccttccca cttccgcgct gagcccggcc ctgtgcgtcc cgcagGCGCT TCGGGACCAA ctcagggggg cgtccggggga aattctctccc ccaagcgctc actaaggggg cctgggctag ggcggtgtag gcagcaggaa gccgaggccg ggaacggcgg 4751 tcagcaagta ttatttcgaa aaaaaagcaa tttattacct aaatcacaga agttcctccg aaattggtga tgttttagtt cctaatgctg gcacccagcg ggttcccttc tcagtgggag tgggcagctc tgccccggcg gccaggctgg ggcagccgct tgccgctctc caacccgctc ggggcgaaat gagcctcgcg 4901 4951 5301 5351 5551 5651

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FIG. 26G

gececegcag ageegggegg eegeteaeee egeeeegeee eaagGTTTGG TTCCAGAACC GCCGGCCAA GGAGAAGAGG CTGAAGAAGG ACGCCGGCCG CCAAGTCGGA CAAGGACAGC GTTCAGGAGG GGCAGGACAG CGACGCTGAG ttcccatgga gttagtggac tccttaagtt ctactttcaa aagcatttca cttacagaac ctgctccccc agcaccctcc ccgccctggg tggccactcc AGCAGCTGGA GACGCTGAAG AGCGCTTACA ACACCTCGCC CAAGCCGGCG CGCCACGTGC GCGAGCAGCT CTCGTCCGAG ACGGGCCTGG ACATGCGTGT GCAGCGCTGG GGGCAGTATT TCCGCAACAT GAAGCGCTCC CGCGGCGCGT GICTCCTICC CCGgtaggcg gagggatcgc ggagctcggg ggggggacga gegegegteg geggggtege aggggteeea gggageeege ggatetgaat 5701 ggctgggcca tacccacacc cttagaataa aggggagccc gcggggaaat cagggtgctt ggagaaggga gccaaggctg aaggcgggggg cgccgtggag gtgcgatttt agggaaggcg ccgccccgc ccccgcggca gaacccgccc tecgeeggeg ecectecae ecageeegg gtgetgeeeg tttttgeeaa tgggcacctg aggccccgac gtccccgcgc cggccggggt gggagggtgg cgcagAGGCC GAGGCCACGG CCAAGCGGCC GCGCACGACC ATCACCGCCA GGTGCAGgtc agcgctcgcc cctgcttccc tcccgcccgc ggccttgggg tegeteccag egecegegee tteegagaag eetgtggggge gggatgggggg gggtccggcc ggggccggag gggctgccgc gcctcaccgc tcgcccgccg 6101 6301 6401 6501 6601 5901 6001 6151 6201 6251 6351 6051

FIG. 26H

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tgtcatgtgg tgtggggcag ccactctttc tctgacccag gggtgcctcc ggggctggat tatttatttc attctccggg caccggggat gctgcgtccc ctgcctcgtg acccgggcta ctcactcagc cactctggaa ctaaatatcc gtggggctgg tcctgaaagc ctgggccctg gctgggctgt tcctgactct gaggggcagg gacagccatg ctccaacagt agaaggggcc tgtgctgacc gcctgcagga tgggactctg aggggccgca ggtggagggc aggcgctgac tgagcctctg cttctgttgc agATGAGCCT TCCTTGGCGG AAATGGGCCC GGCCAATGGC CTCTACGGGA GCTTGGGGGA ACCCACCCAG GCCTTGGGCC GGCCCTCGGG AGCCCTGGGC AACTTCTCCC TGGAGCATGG AGGCCTGGCA GGCCCAGAGC AGTACCGAGA GCTGCGTCCC GGCAGCCCCT ACGGTGTCCC gggagggggc tacctgggggt cagggagaga aggttccata cccttctgtg ttgtctgcaa aatgtgggtg gtggtatctg tgcccccttc ctaggctgct gatcccacca ggcctgagac acctgggctg actcaggggt gagggcagtg 6701 tececaaget gggegeetae gggetttete atgggggggt gggegtgtee aggeegtete tetggeteet ageeettgea gtgattttta ggagaatggg cagtgcattt cgggaaagac tgagtcgaag tcccagctgc ttggagttgg catctgttga tgcccatcct cagaatgtgg acaagacact ctcttttggg 6651 ggaccactgc ttttcccctg gtggggacac aatccctgtg gcccgacctg 7051 7201 7251 6851

FIG. 261

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CCGCCTCCTG GCTGGATGAG GTAGACCACG CTCAGTTCTG Acccaggece ggctccaccc tgcacctcac acgagggagc tgcccctggg tgggcggctc ggggctgctg gggtttccga ggaagtgggg ccagggcgtc aagggagggc 8351 tgcctccagc cccaccttcc ccgggagaag ctttccccaa tccccaggtc TGACCTATCC ACGGGGAGCA GCGGGGTTA CCCCGACTTC CCTGCCAGCC tggtgccttc ggagcctccc actgccgacc gcacagctcc ctctctgggg tggcctccca gcaagccagc cttttttgta agcaaatttc tcccctttat tgaccaatta actgagcact tgctgctatt tctagacatg aaatgtcacc ttgctgaggc ccagcccagc ccagcatagc ccgagggctg gaaaaacgct tgtcttccgg gagaggcccc ctcctctccc cagaccacag ggggcctctc 8401 tctagatcat tctgttctcg agtatcctgt ggaggaggca aaaatgcctg 7601 CCAGCCTGGT GTACCCAGAC ACCAGCTTGG GCCTTGTGCC CTCGGGAGCC CCCGGCGGGC CCCCACCCAT GAGGGTGCTG GCAGGGAACG GACCCAGTTC gctgagggac ccacctggcc cctcctctga cacagggctg gcccgccagg ttcatctcta aaactgagaa atcatcataa ttgtgctttc acttcccagg ctccatgtgt cttggagccg tcacccgag gctccctctt taggtcggag attggccttg cctgtcgagg caagaggctg cagaggcggg gacacactg 7551 CCCATCCCCC GCCGCCCCGC AGAGCCTCCC TGGCCCCCAG CCCCTCTTT 7901 8001

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8501 tcaccccacc ccaggccctt ggtgtccagg ctgcacccac agatgtctgt cctcctccat cagatccttt gggaagaagt ttctggggaga tgcccgcagc tcttttattt attctcgggt gatcagctct ttccaagact tcaaaaant 8451 gegeeeette tetecaaget caatteteta ageeeeteag ggteteetee tgccaaacag cctgccctcc ctgccggagc cggctctgcc agccccagat tgggaagtct ccccgctgga gaagggtggg gctcctctga gcctgccctg tgtgcgtgcc ccagacacaa aggctggcct gtgtgtaagt caaagtcact cccgcaaacc tgaatctcga gctacctatt ggttctgtga atgttctgtg 8851 gtcagttacctcgtgcc 8551 8601

FIG. 27A

atgctgctgg aaacggagct ggcgggcgac cgagatcggc ccggggcccc acttcttcaa gcgcttcggg accaagtgcg ccgcgtgcca gctgggcatc 51 egcageegeegetgtetgea eettaeeegg gaetegggag ateeeaetgt 101 gtgccggctg cgaccagcac atcctggacc gcttcatcct caaggctctg 151 gaccgccact ggcacagcaa gtgcctcaag tgcagtgact gccacacgcc gctggccgag cgctgcttca gccgcggaga gagcctctac tgcaaggacg ccgcccacgc aggtggtgcg ccgcgcccag gacttcgtgt accacctgca

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FIG. 27B

401 tctacctcat ggaggacagc cggctcgtgt gcaaggccga ctacgagacc agcccgcgcg ccacgtgcgc gagcagctct cctccgagac cggcctggac gctcaagaag gacgccggcc ggcagcgctg gggccagtac tttcgtaaca ttctgactga ggccccagct ccgtggagca ccagacacga gcactgcccc 351 ctgcttcgcc tgcgtcgtgt gcaagcggca gctggccacg ggcgacgagt gccaagcagc gagaggccga ggccacggcc aagcggccgc gcacgaccat 501 cacggccaag cagctggaga cgctgaagag cgcctacaac acgtcgccca atgcgcgtcg tgcaggtgtg gttccagaac cgccgggcca aggaaaagcg tgaagcgcgc ccgcggtggc tccaagtcgg acaaggacag cgtccaggag gaggggcagg acagtgacgc cgaggtctcc ttcacagacg agccatccat ggccgaaatg ggccctgcca acggcctcta cggcggcctg ggggagcctg cccctgcctt gggccggccc tcgggggccc cgggcagctt cccgctggag cacggaggcc tggcgggccc ggagcagtat ggagagctgc gccccagcag cccctacggt gtcccctcgt cgcccgccgc cctgcagagc ctccctggcc cccagcccct cctctccagc ttggtgtacc cggaggctgg cttgggggctt gaacggaccc agctccgacc tatccacggg gagcagtggg ggctaccccg acttccctgc cagtcccgcc tcctggctgg acgaggtgga tcacgctcag gtgcccgcgg ggccccagg tgggccccca cccatgaggg tgctggcagg 1051

FIG. 27C

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ggcggccctg gccccgggca gagggacttt ctcccggtct cgaggctcct aagcagattc ctccctttat caaccaaaat taactgagtg cttgctgctc tttctagacc ggagtggtca gcccccgaag ccgggggaggg gggctctccc cagcccagag cagcacagcc ctcagactgg aagatgcttt aatttttaaa 1251 tggctgggtg gtcgggagcc gcgctctcct ttcccgaagc cctgggcctc taaaggacac agggtcaccg gcggggcaca ggctgaggac tgtccagccc attaaaaaat aatacgaact gtgcttccat ttcccagctt cctctgtcta tctgggacaa ggggagccac ctggtggctg ctcagcaagc cttgttttgt gttctgcc 1301 1351 1451 1501 1401

FIG. 28

HGGLAGPEQY GELRPSSPYG VPSSPAALQS LPGPQPLLSS LVYPEAGLGL VPAGPPGGPP PMRVLAGNGP SSDLSTGSSG GYPDFPASPA SWLDEVDHAQ 1 MILETELAGD RDRPGAPAA AVCTLPGTRE IPLCAGCDOH ILDRFILKAL PPTQVVRRAQ DFVYHLHCFA CVVCKRQLAT GDEFYLMEDS RLVCKADYET AKOREAEATA KRPRTTITAK QLETLKSAYN TSPKPARHVR EQLSSETGLD MRVVQVWFQN RRAKEKRLKK DAGRQRWGQY FRNMKRARGG SKSDKDSVQE EGODSDAEVS FTDEPSMAEM GPANGLYGGL GEPAPALGRP SGAPGSFPLE DRHWHSKCLK CSDCHTPLAE RCFSRGESLY CKDDFFKRFG TKCAACQLGI 151 101 201 251 301 351 reef dereit ereit flore ereit

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FIG. 29A

caggaggagg ggcaggacag tgacgccgag gtctccttca cagacgagcc atccatggcc gaaatgggcc ctgccaacgg cctctacggc ggcctgggggg agcetgeece tgeettggge eggeeetegg gggeeeeggg eagetteeeg atqqaaqcqc qcqqqqaqct qqqccccaqc cqqqaqtcqq cqqqcqqcqa gagaccgcca agcagcgaga ggccgaggcc acggccaagc ggccgcgcac gaccatcacg gccaagcagc tggagacgct gaagagcgcc tacaacacgt cgcccaagcc cgcgcgccac gtgcgcgagc agctctcctc cgagaccggc ctggacatgc gcgtcgtgca ggtgtggttc cagaaccgcc gggccaagga aaagcggctc aagaaaggacg ccggccggca gcgctggggc cagtactttc gtaacatgaa gcgccccgc ggtggctcca agtcggacaa ggacagcgtc 51 cctgctgctg gcgctgctgg cgcggaggga ggacctgcgc cgagagatcc gctctggacc gccactggca cagcaagtgc ctcaagtgca gtgactgcca ggcatcccgc ccacgcaggt ggtgcgccgc gcccaggact tcgtgtacca cctgcactgc ttcgcctgcg tcgtgtgcaa gcggcagctg gccacgggcg acgagttcta cctcatggag gacagccggc tcgtgtgcaa ggccgactac cactgtgtgc cggctgcgac cagcacatcc tggaccgctt catcctcaag cacgccgctg gccgagcgct gcttcagccg cggagagagc ctctactgca aggacgactt cttcaagcgc ttcgggacca agtgcgccgc gtgccagctg 351 401 451 501 551 601 651

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tttaaaatta aaaaataata cgaactgtgc ttccatttcc cagcttcctc accedaett ecetgecagt ecegeeteet ggetggaega ggtggateae ggcctctaaa ggacacaggg tcaccggcgg ggcacaggct gaggactgtc ttttgtaage agatteetee etttateaae eaaaattaae tgagtgettg ctgctctttc tagaccggag tggtcagccc ccgaagccgg ggaggggggc gctcagttct gactgaggcc ccagctccgt ggagcaccag acacgagcac tgcccctggc tgggtggtcg ggagccgcgc tctcctttcc cgaagccctg cagcccggcg gccctggccc cgggcagagg gactttctcc cggtctcgag gctccttctg ggacaagggg agccacctgg tggctgctca gcaagccttg tctccccagc ccagagcagc acagccctca gactggaaga tgctttaatt 901 ctggagcacg gaggcctggc gggcccggag cagtatggag agctgcgccc caqcaqcccc tacggtgtcc cctcgtcgcc cgccgccctg cagagcctcc ctggccccca gcccctcctc tccagcttgg tgtacccgga ggctggcttg gggettgtgc eegeggggee eecaggtggg eeeeeaeeea tgagggtget ggcagggaac ggacccagct ccgacctatc cacggggagc agtgggggct tgtctagttc tgcc 1601 1651 951 1501 1301 1401

FIG. 30

51 ALDRHWHSKC LKCSDCHTPL AERCFSRGES LYCKDDFFKR FGTKCAACQL 1 MEARGELGPS RESAGGDLLL ALLARREDLR REIPLCAGCD QHILDRFILK ETAKQREAEA TAKRPRTTIT AKQLETLKSA YNTSPKPARH VREQLSSETG QEEGQDSDAE VSFTDEPSMA EMGPANGLYG GLGEPAPALG RPSGAPGSFP GIPPTQVVRR AQDFVYHLHC FACVVCKRQL ATGDEFYLME DSRLVCKADY LDMRVVQVWF QNRRAKEKRL KKDAGRQRWG QYFRNMKRAR GGSKSDKDSV LEHGGLAGPE QYGELRPSSP YGVPSSPAAL QSLPGPQPLL SSLVYPEAGL GLVPAGPPGG PPPMRVLAGN GPSSDLSTGS SGGYPDFPAS PASWLDEVDH 151 201 301 351 251